

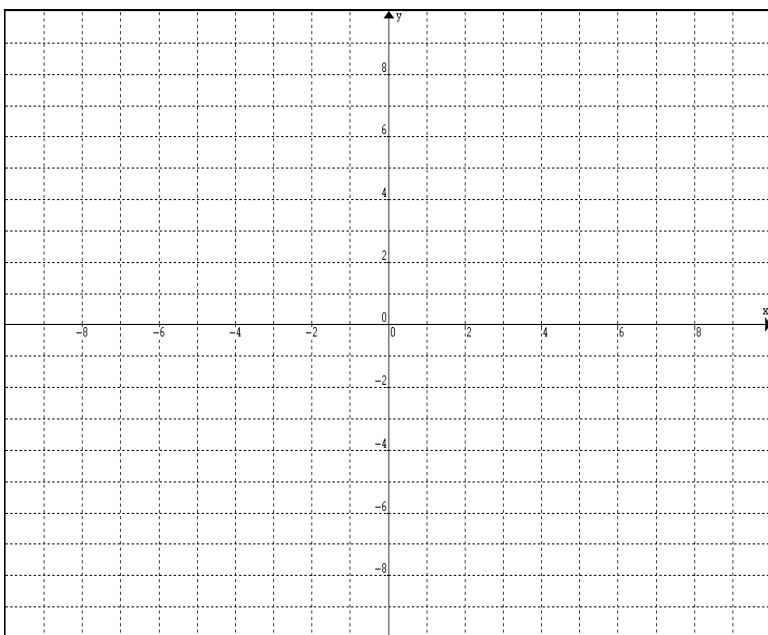
Graphing Quadratic Functions

1. $f(x) = x^2$

Vertex =

y-intercept :

x-intercept:

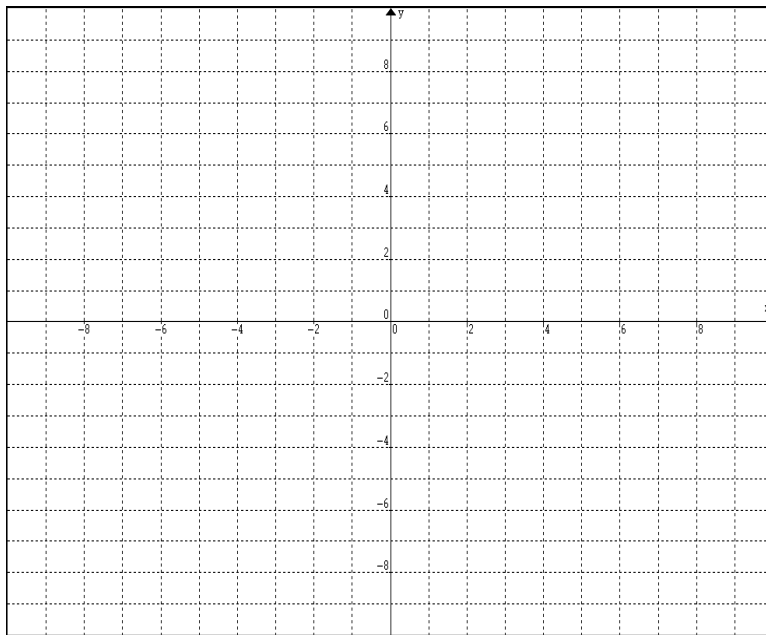


2. $f(x) = x^2 + 5$

Vertex =

y-intercept :

x-intercept:

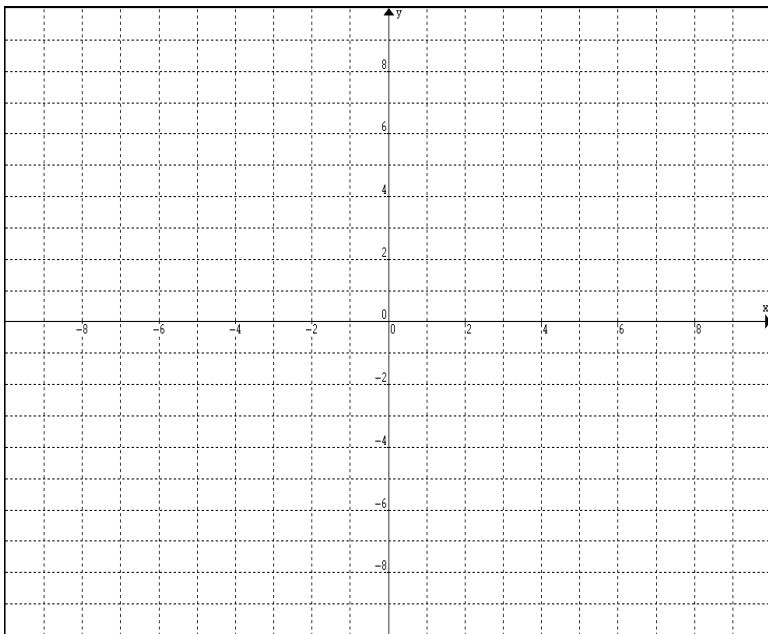


3. $f(x) = (x + 3)^2$

Vertex =

y-intercept :

x-intercept:

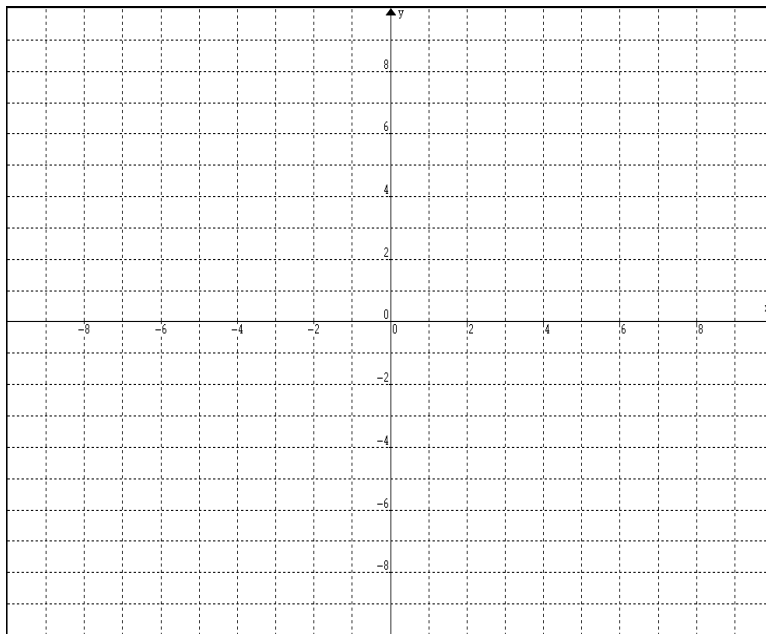


4. $f(x) = (x - 4)^2 - 3$

Vertex =

y-intercept :

x-intercept:

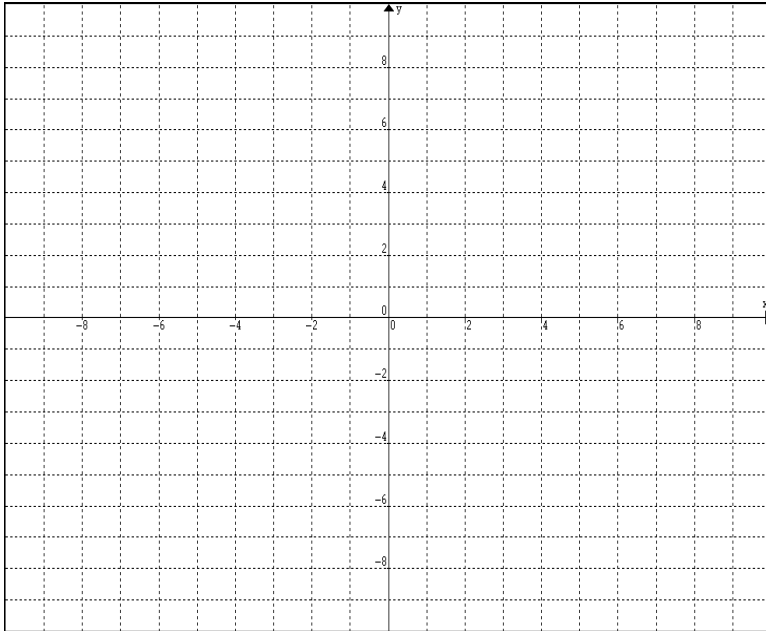


5. $f(x) = -x^2$

Vertex =

y-intercept :

x-intercept:

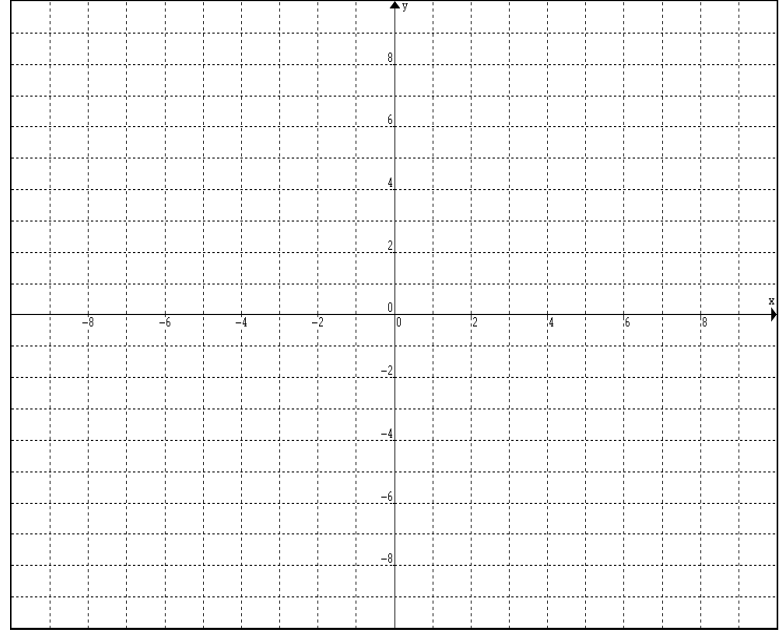


6. $f(x) = -x^2 + 4$

Vertex =

y-intercept :

x-intercept:

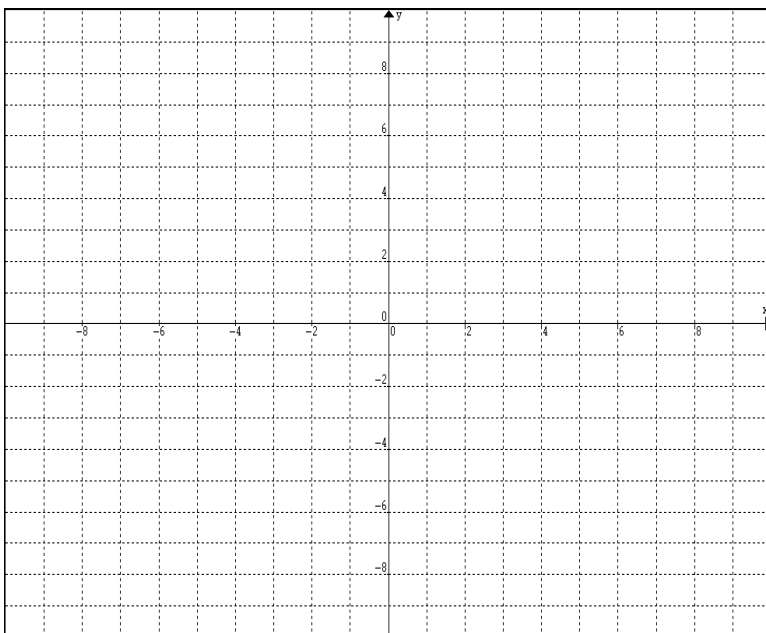


7. $f(x) = -(x+3)^2$

Vertex =

y-intercept :

x-intercept:

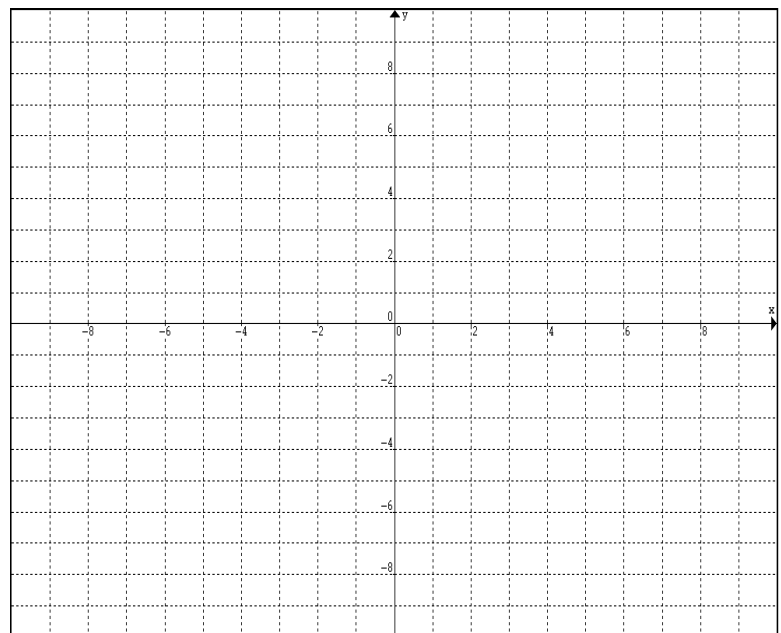


8. $f(x) = -(x-1)^2 - 3$

Vertex =

y-intercept :

x-intercept:

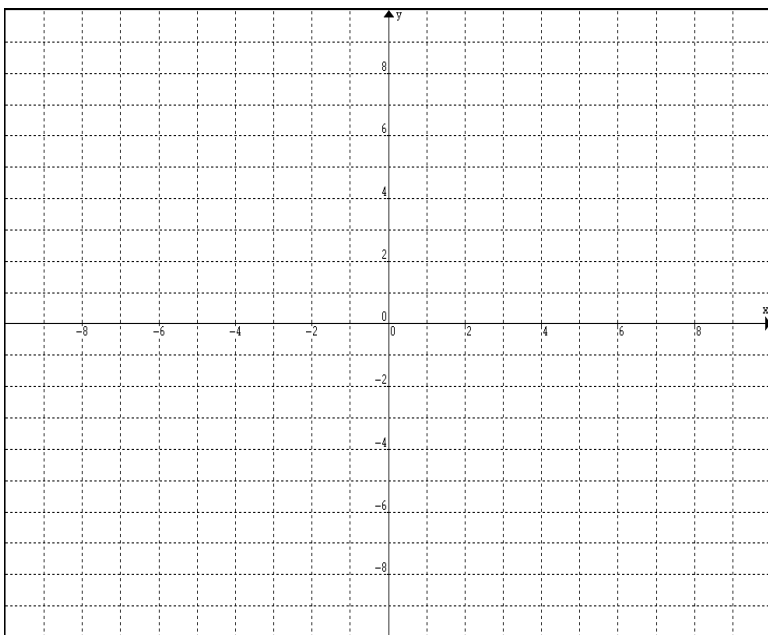


9. $f(x) = 2x^2$

Vertex =

y-intercept :

x-intercept:

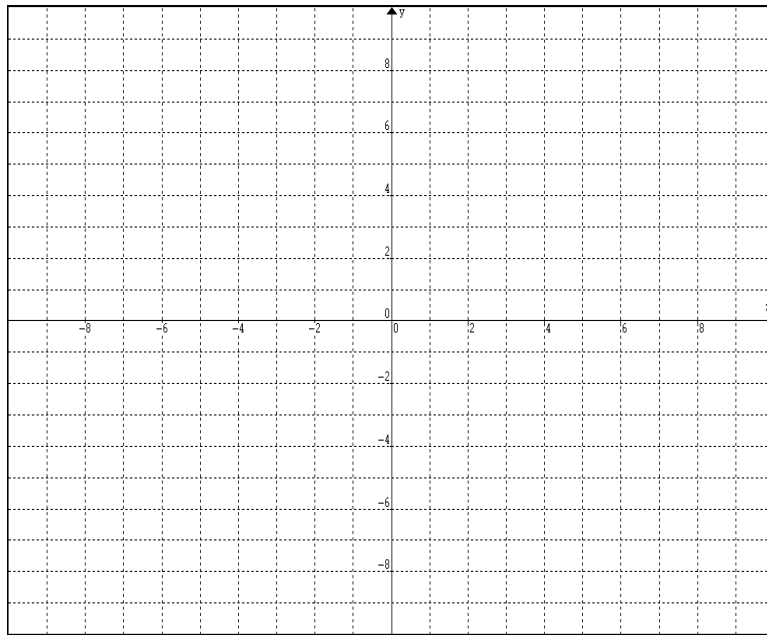


10. $f(x) = -2x^2$

Vertex =

y-intercept :

x-intercept:

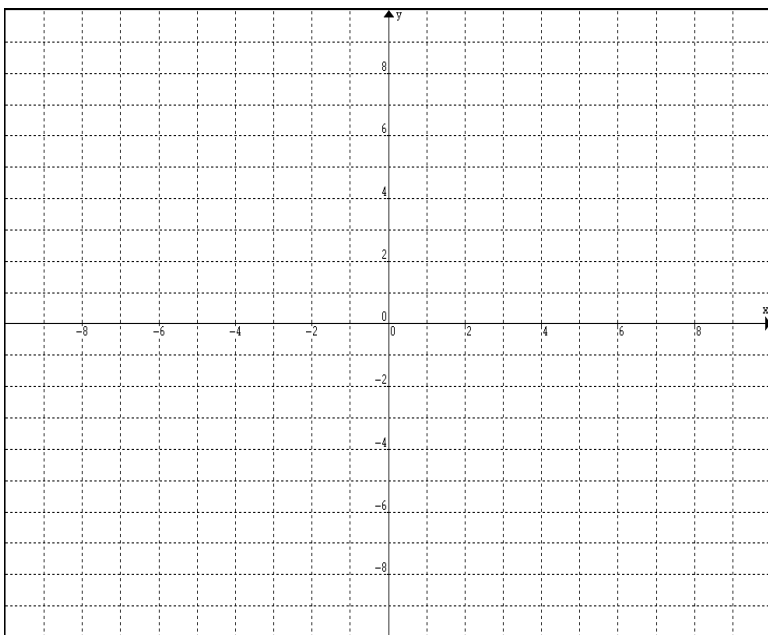


11. $f(x) = 2(x + 3)^2 - 6$

Vertex =

y-intercept :

x-intercept:

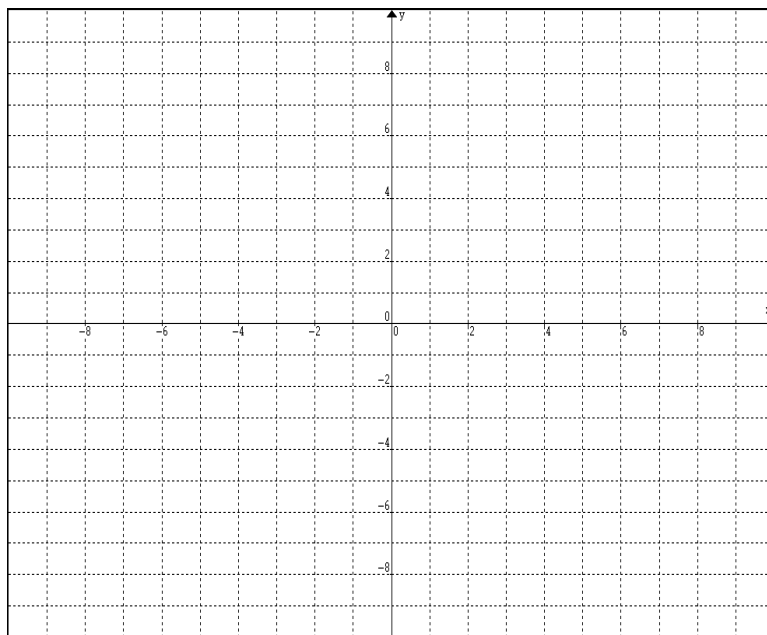


12. $f(x) = -2(x - 1)^2 - 2$

Vertex =

y-intercept :

x-intercept:

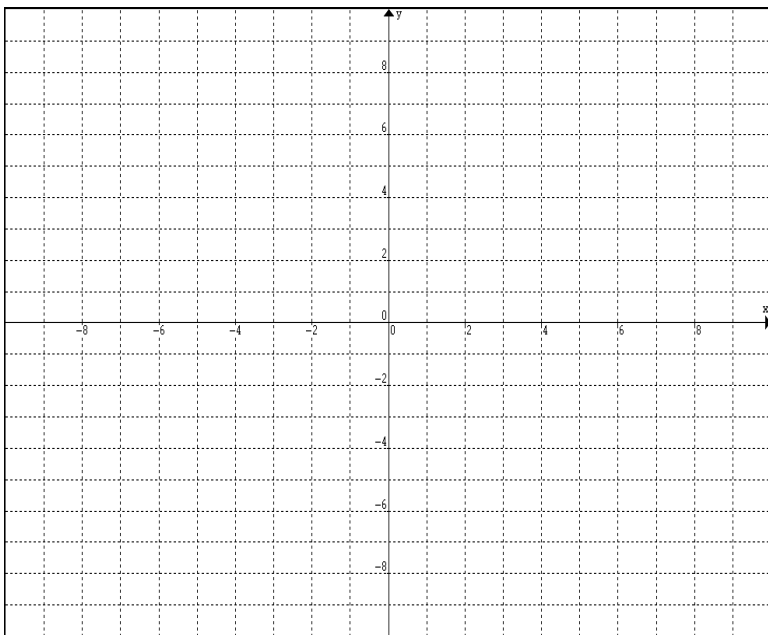


13. $f(x) = x^2 + 4x - 5$

Vertex =

y-intercept :

x-intercept:

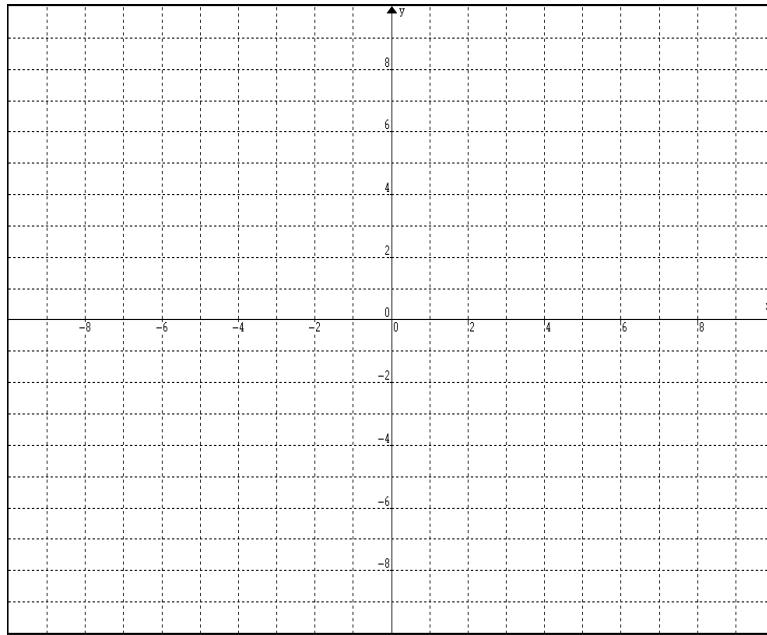


14. $f(x) = x^2 + 6x + 2$

Vertex =

y-intercept :

x-intercept:

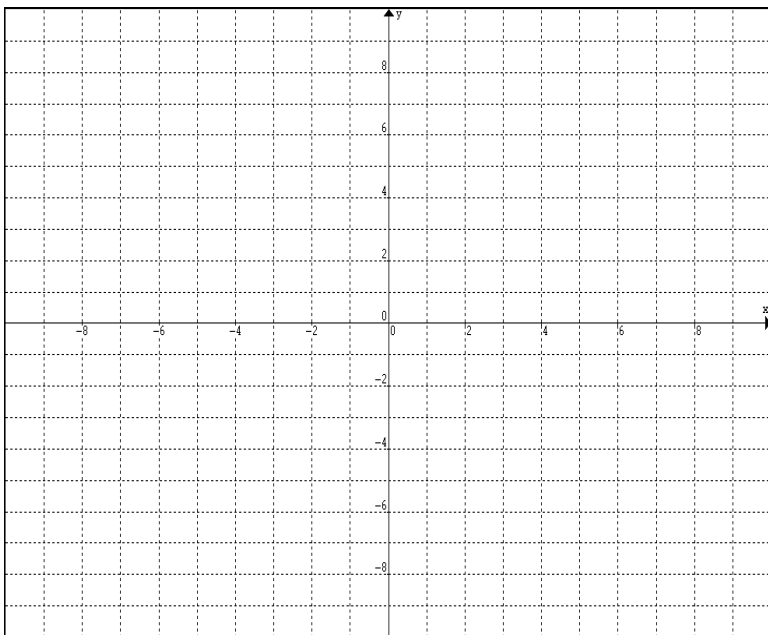


15. $f(x) = x^2 + 4x + 7$

Vertex =

y-intercept :

x-intercept:

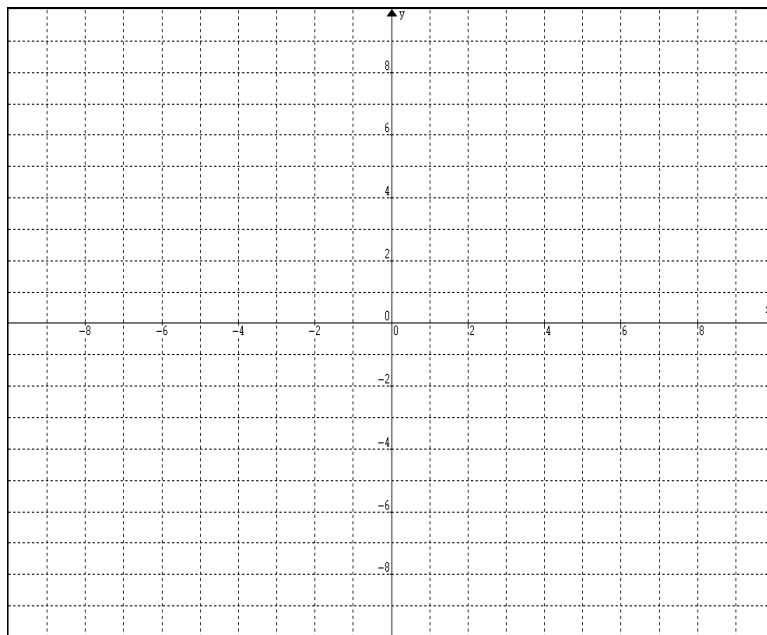


16. $f(x) = x^2 - 6x + 2$

Vertex =

y-intercept :

x-intercept:

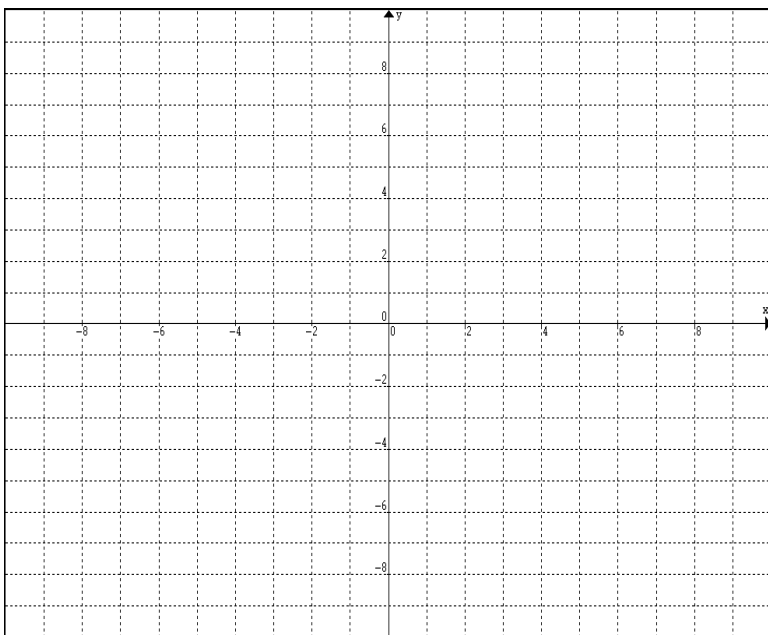


$$17. f(x) = -x^2 + 6x - 2$$

Vertex =

y-intercept :

x-intercept:

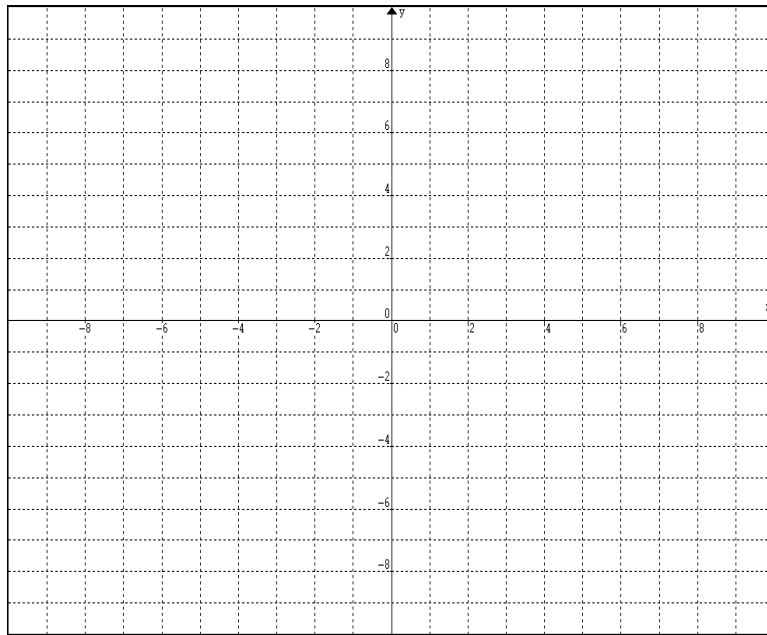


$$18. f(x) = -x^2 - 4x - 7$$

Vertex =

y-intercept :

x-intercept:

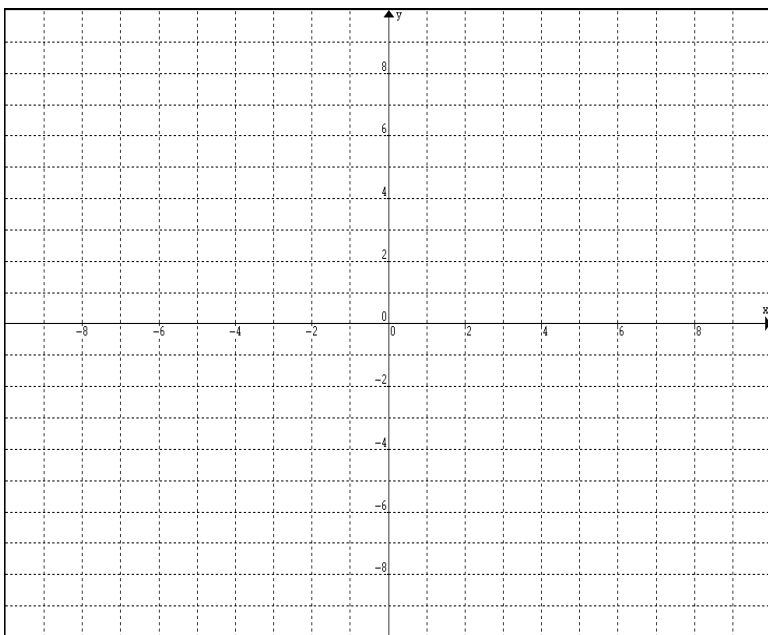


$$19. f(x) = -x^2 - 6x - 3$$

Vertex =

y-intercept :

x-intercept:

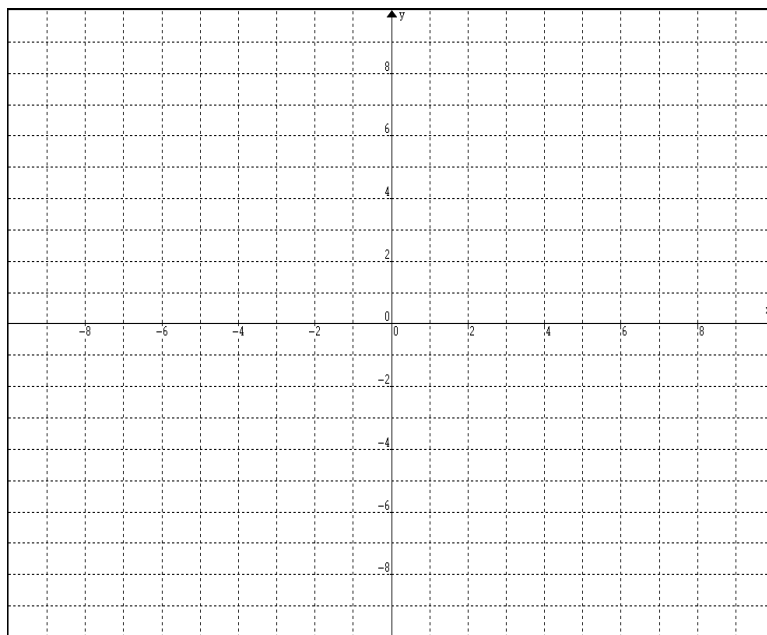


$$20. f(x) = -x^2 + 4x + 4$$

Vertex =

y-intercept :

x-intercept:

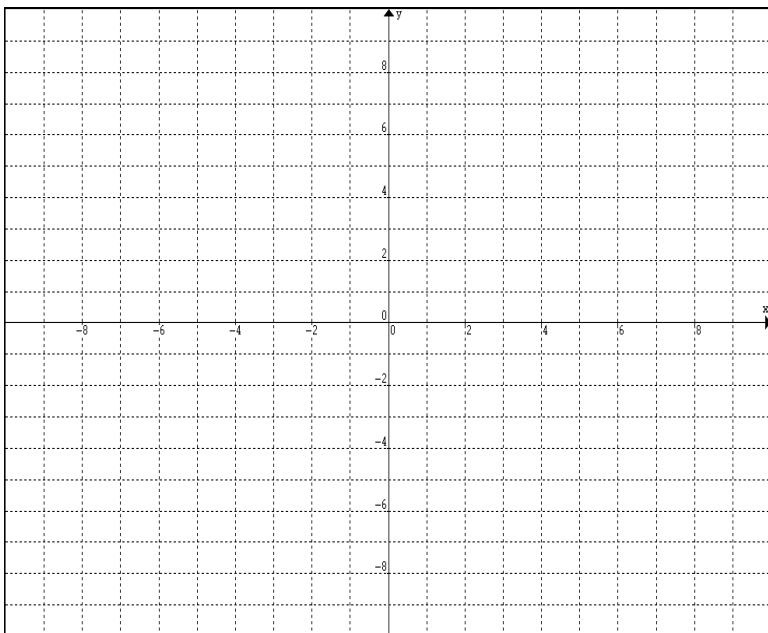


$$21. f(x) = 2x^2 - 12x + 9$$

Vertex =

y-intercept :

x-intercept:

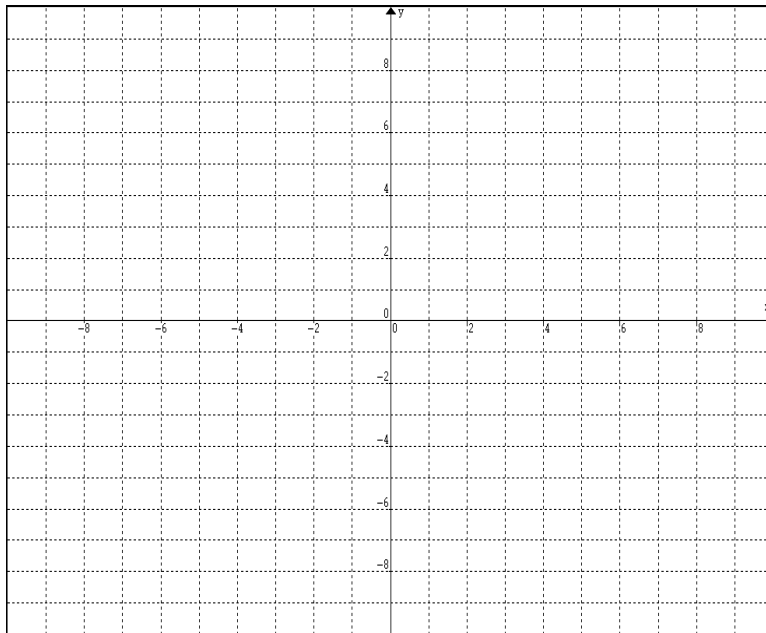


$$22. f(x) = 3x^2 + 12x + 4$$

Vertex =

y-intercept :

x-intercept:

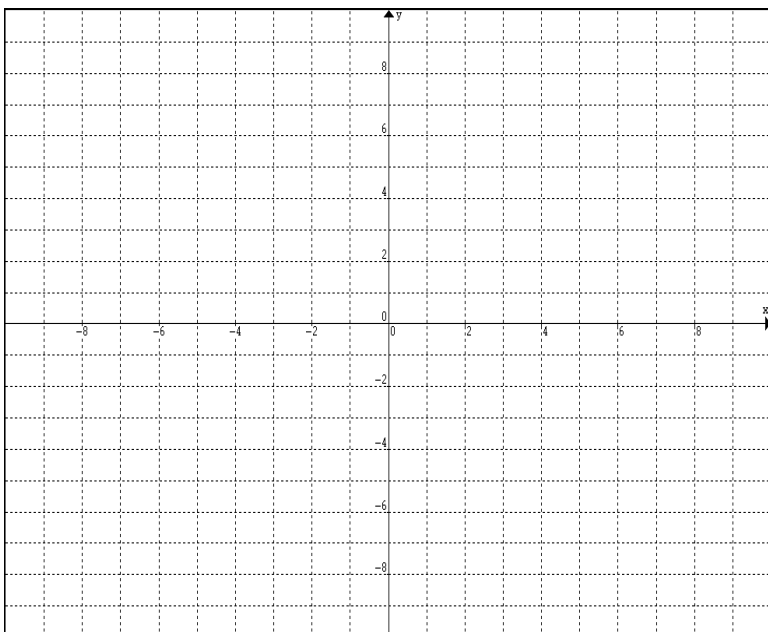


$$23. f(x) = 4x^2 - 8x + 2$$

Vertex =

y-intercept :

x-intercept:

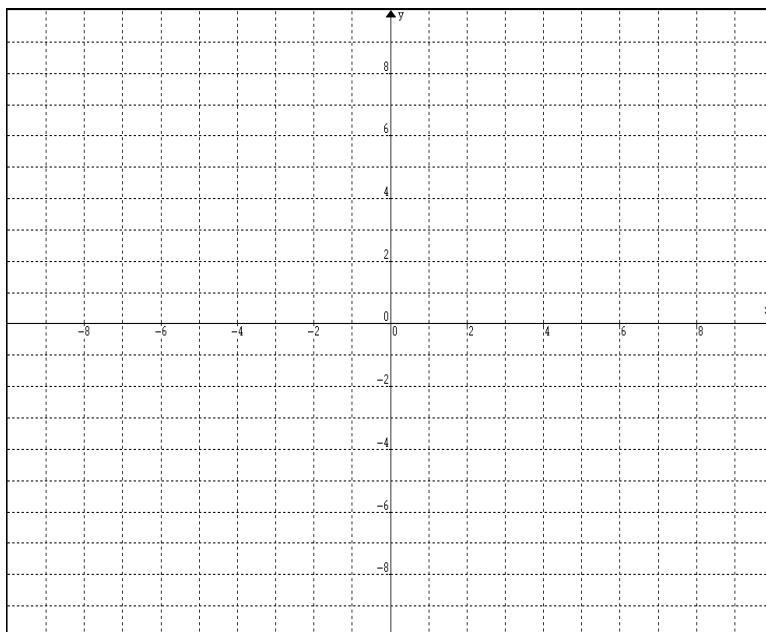


$$24. f(x) = 2x^2 + 8x + 2$$

Vertex =

y-intercept :

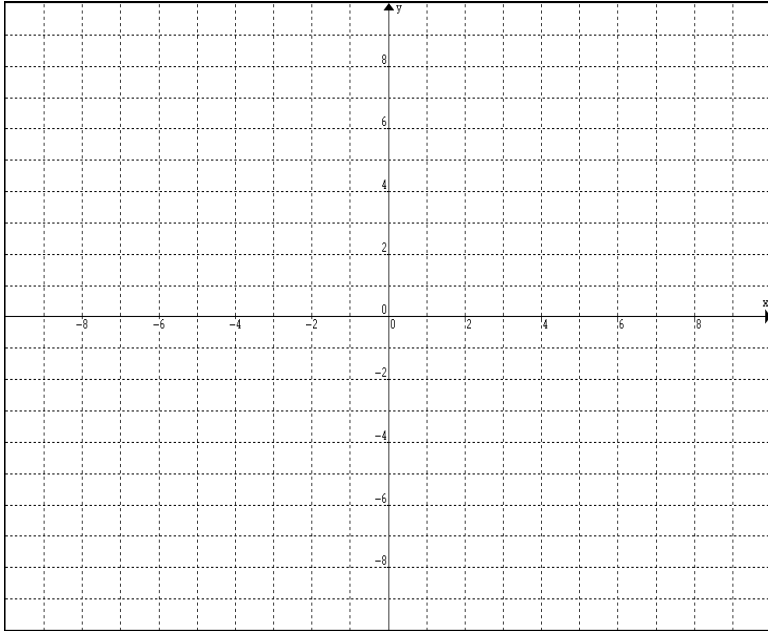
x-intercept:



25. $f(x) = -2x^2 + 12x - 10$

Vertex =
y-intercept :

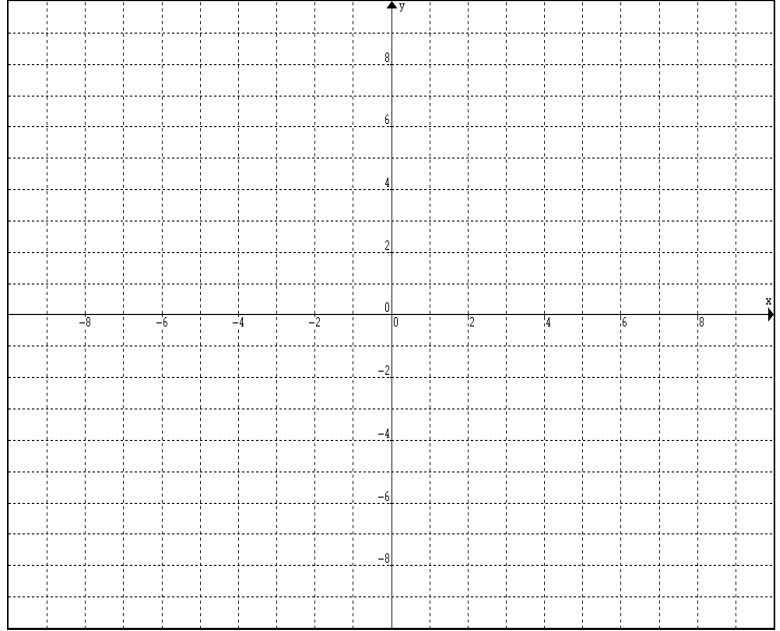
x-intercept:



26. $f(x) = -3x^2 - 12x - 5$

Vertex =
y-intercept :

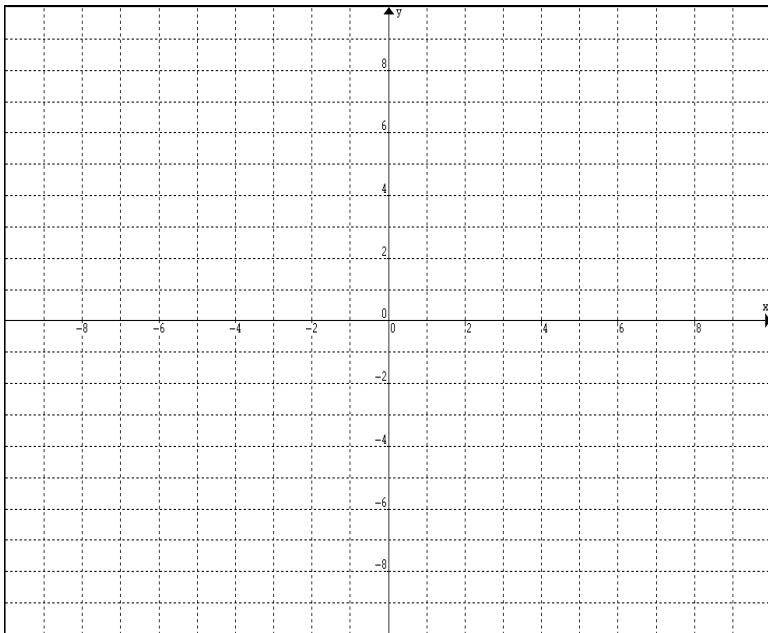
x-intercept:



27. $f(x) = -3x^2 + 12x - 2$

Vertex =
y-intercept :

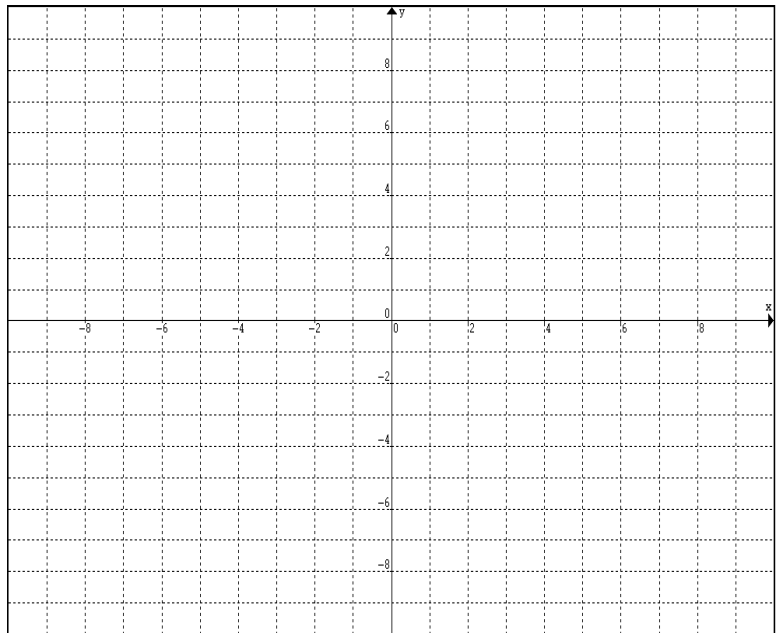
x-intercept:



28. $f(x) = -4x^2 - 8x + 3$

Vertex =
y-intercept :

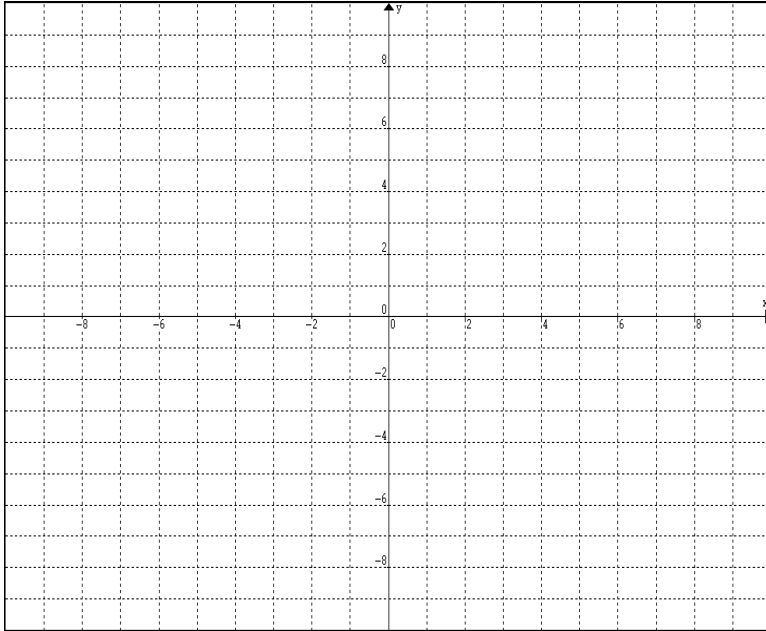
x-intercept:



29. $f(x) = 2x^2 - 8x + 10$

Vertex =
y-intercept :

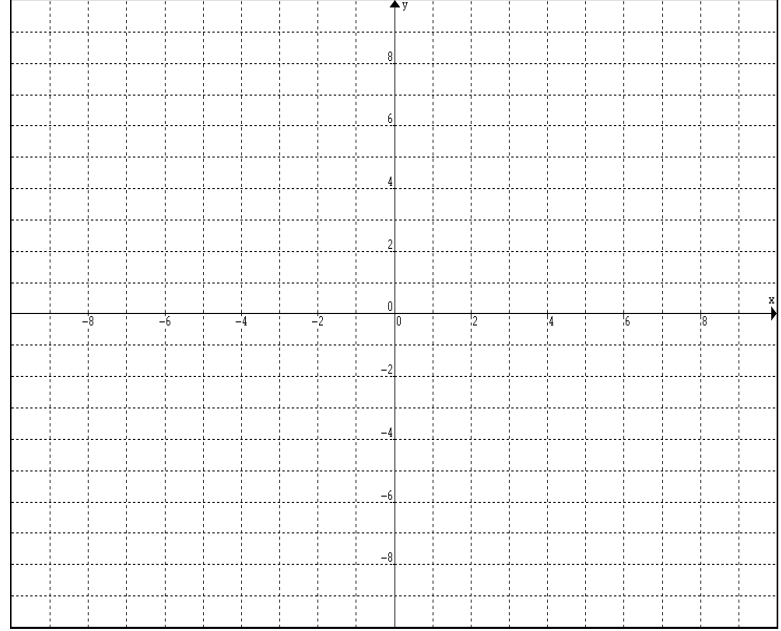
x-intercept:



30. $f(x) = -3x^2 - 6x - 7$

Vertex =
y-intercept :

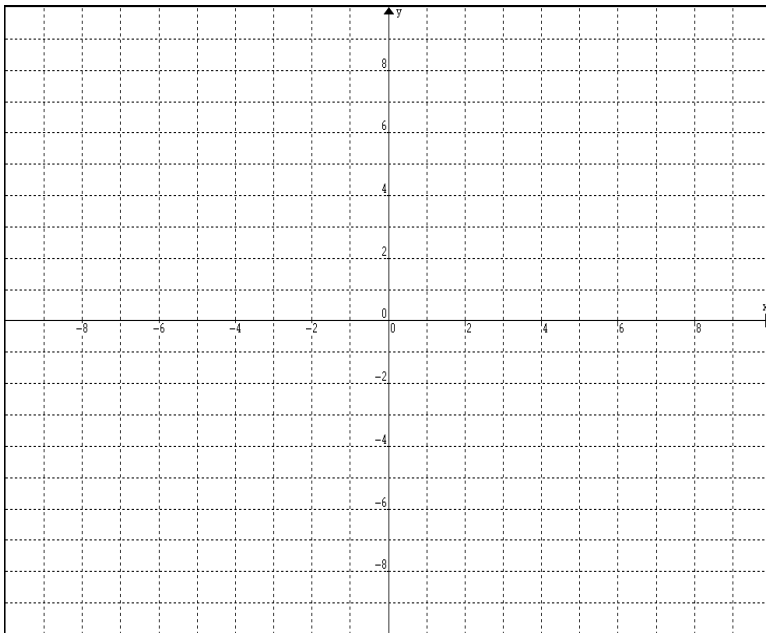
x-intercept:



31. $f(x) = -2x^2 + 8x - 8$

Vertex =
y-intercept :

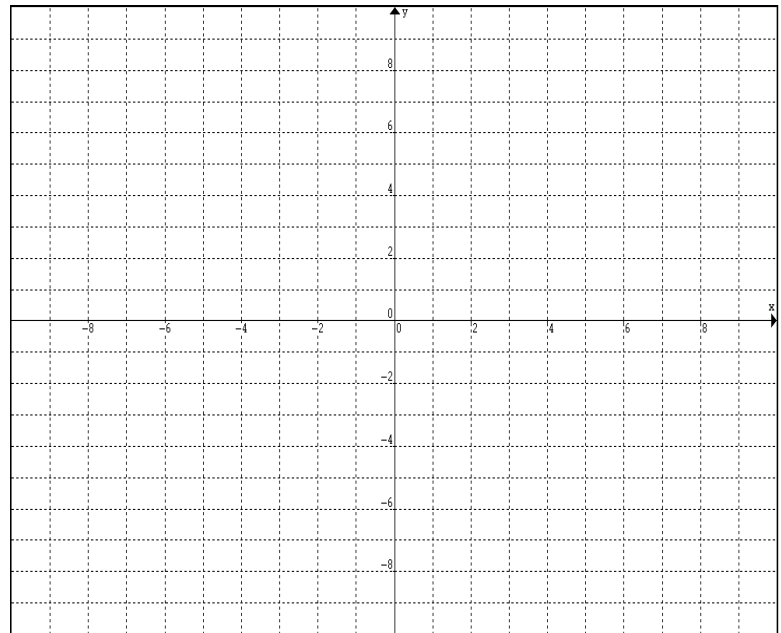
x-intercept:



32. $f(x) = 3x^2 + 6x + 3$

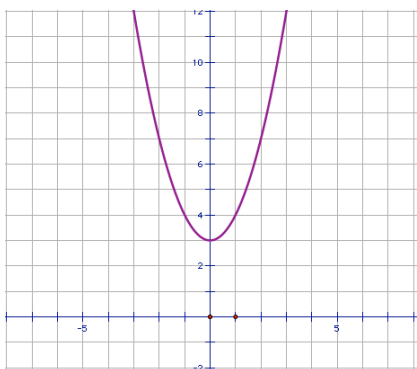
Vertex =
y-intercept :

x-intercept:

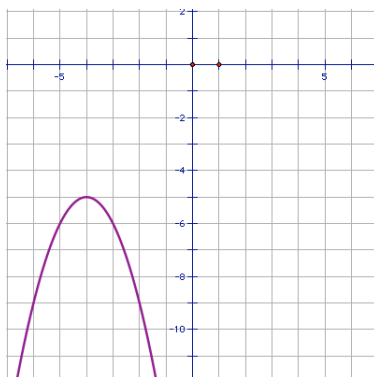


Write an equation of each graph below in the form $f(x) = a(x - h)^2 + k$.

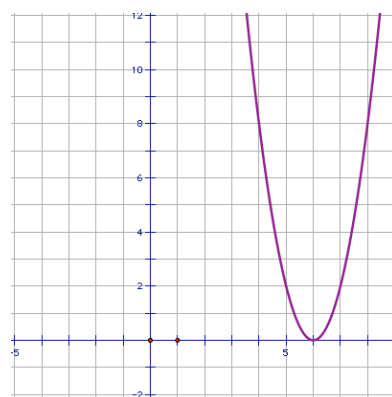
33. $f(x) =$ _____



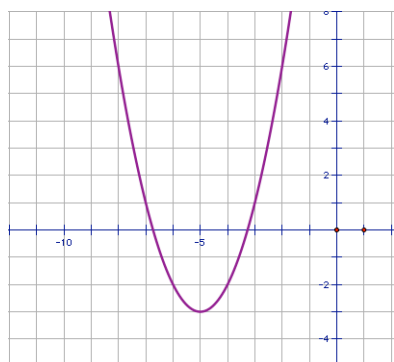
34. $f(x) =$ _____



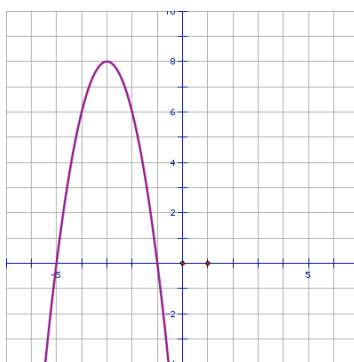
35. $f(x) =$ _____



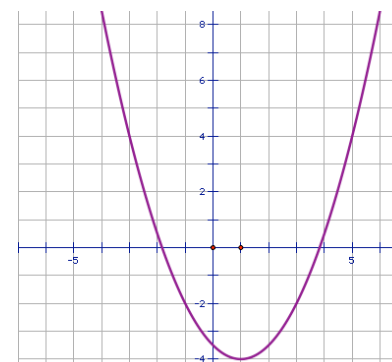
36. $f(x) =$ _____



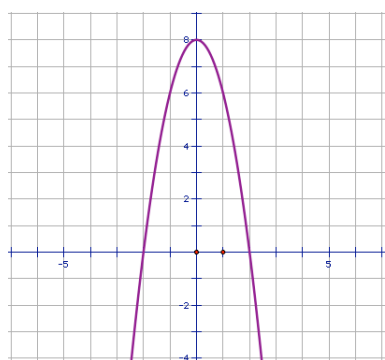
37. $f(x) =$ _____



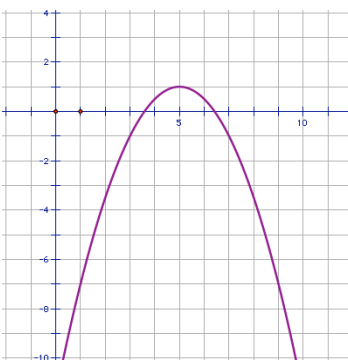
38. $f(x) =$ _____



39. $f(x) =$ _____



40. $f(x) =$ _____



41. $f(x) =$ _____

